

6/18/99

09/336609

FILE 'REGISTRY' ENTERED AT 09:08:39 ON 08 FEB 2000

L1 1477 SEA ABB=ON PLU=ON GCTGCTTCCTTC|GACCTGACCTGGTA|GGCACACGC
GTCATCTGC|GCTGCTTCCGTC|CGGACCTGACCTG|AGGACCUGACAUG|CGGACC
UGACCAG|CGGACCUGACAAG|CGGAUCUGACACG/SQSN
L2 15 SEA ABB=ON PLU=ON L1 AND SQL=<75

FILE 'CAPLUS' ENTERED AT 09:19:10 ON 08 FEB 2000

L3 4 SEA ABB=ON PLU=ON L2

L3 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 1999:811396 CAPLUS

DOCUMENT NUMBER: 132:60095

TITLE: Detection of non-viral microorganisms with
nucleic acid probes specific for SRP (signal
recognition particle) RNAINVENTOR(S): Boles, T. Christian; Weir, Lawrence; Stone,
Benjamin B. *inventor's own - not prior*

PATENT ASSIGNEE(S): Mosaic Technologies, USA

SOURCE: PCT Int. Appl., 49 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9966079	A1	19991223	WO 1999-US13799	19990618
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: US 1998-90063 19980619

AB The present invention provides rapid detection methods that detect
virtually all non-viral organisms such as bacteria, fungi, and
protozoa, by hybridization with SRP (signal recognition particle)
RNA nucleic acid probes. The SRP RNA may be electrophoresed through
a gel in which the probes have been immobilized. Using the
detection methods of the present invention, major non-viral groups
such as bacterial, fungi, and protozoa, as well as specific species,
can be identified in samples. In addn., kits for use in carrying
out the methods of the present invention are provided.

IT 252941-58-5 253148-73-1

RL: ARG (Analytical reagent use); BUU (Biological use,
Searcher : Shears 308-4994

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unclassified); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(bacterial 4.5S RNA adaptor probe; detection of non-viral microorganisms with nucleic acid probes specific for SRP (signal recognition particle) RNA)

IT 252941-50-7 252941-51-8 252941-54-1
252941-55-2 252941-56-3 252941-57-4

RL: ARG (Analytical reagent use); BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(bacterial 4.5S RNA probe; detection of non-viral microorganisms with nucleic acid probes specific for SRP (signal recognition particle) RNA)

IT 253134-40-6D, immobilized acrydite derivs.
253134-41-7D, immobilized acrydite derivs.
253134-43-9D, immobilized acrydite derivs.
253134-44-0D, immobilized acrydite derivs.

RL: ARG (Analytical reagent use); BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(capture probe CP-1; detection of non-viral microorganisms with nucleic acid probes specific for SRP (signal recognition particle) RNA)

IT 252941-53-0

RL: ARG (Analytical reagent use); BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(fluorescent sandwich probe 2F; detection of non-viral microorganisms with nucleic acid probes specific for SRP (signal recognition particle) RNA)

L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 1999:390456 CAPLUS

DOCUMENT NUMBER: 131:29580

TITLE: Slotted electrophoresis gel composition and methods of use thereof

INVENTOR(S): Hammond, Philip W.; Adams, Christopher P.;
Abrams, Erza S.; Boles, T. Christian

PATENT ASSIGNEE(S): Mosaic Technologies, USA

SOURCE: PCT Int. Appl., 39 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9930145	A1	19990617	WO 1998-US25780	19981204
	Searcher	:	Shears	308-4994

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
 DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS,
 JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG,
 MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,
 SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
 ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
 CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

AU 9918040 A1 19990628 AU 1999-18040 19981204
 PRIORITY APPLN. INFO.: US 1997-67556 19971205
 US 1997-PV67556 19971205
 WO 1998-US25780 19981204

AB A slotted electrophoresis gel compn. and methods of use are
 disclosed in the present invention. The invention also describes an
 app. that is used to produce a slotted electrophoresis gel compn.

IT 226713-18-4

RL: ANT (Analyte); ANST (Analytical study)
 (alk. phosphatase modified; slotted electrophoresis gel compn.
 and methods of use thereof)

IT 226713-25-3

RL: ANT (Analyte); ANST (Analytical study)
 (slotted electrophoresis gel compn. and methods of use thereof)

L3 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 1998:78970 CAPLUS

DOCUMENT NUMBER: 128:240849

TITLE: Site-specific modification of 4.5S RNA apical
 domain by complementary oligodeoxynucleotides
 carrying an alkylating group

AUTHOR(S): Bulygin, Konstantin; Malygin, Alexey; Karpova,
 Galina; Westermann, Peter

CORPORATE SOURCE: Institute of Bioorganic Chemistry, Siberian
 Branch of Russian Academy of Sciences,
 Novosibirsk, Russia

SOURCE: Eur. J. Biochem. (1998), 251(1/2), 175-180
 CODEN: EJBCAI; ISSN: 0014-2956

PUBLISHER: Springer-Verlag

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Site-specific alkylation of RNA by reactive oligodeoxynucleotides
 provides structural information and represents the first step
 towards the design of RNA derivs. to be used for functional studies.
 Specific alkylation of 4.5S RNA at G53, the first base of the apical
 tetraloop, was achieved by incubation with oligodeoxynucleotide ON2,
 complementary to nucleotides 38-53, which carries a
 p-(N-2-chloroethyl-N-methylamino)benzylamidophosphate group at the
 5' end. Alkylation efficiency was increased by a factor of 6,
 without alterations of specificity, in the presence of a helper
 Searcher : Shears 308-4994

oligodeoxynucleotide, ON1, complementary to nucleotides 58-71 of the opposite strand of the RNA helix. A second reactive oligodeoxynucleotide, ON1-3'-R, was obtained by attaching the alkylating group to the 3' end of ON1. ON1-3'-R was able to modify G58. In the presence of ON2 as a helper oligodeoxynucleotide, the specificity of ON1-3'-R changes and efficient alkylation of nucleotides G54, A56 and G57 of the apical region of 4.5S RNA was obsd.

IT 181495-04-5

RL: RCT (Reactant)

(site-specific modification of 4.5S RNA apical domain by complementary oligodeoxynucleotides carrying alkylating group)

L3 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 1996:526164 CAPLUS

DOCUMENT NUMBER: 125:214991

TITLE: Hybridization of two oligodeoxynucleotides to both strands of an RNA hairpin structure increases the efficiency of RNA-DNA duplex formation

AUTHOR(S): Malygin, Alexey; Karpova, Galina; Westermann, Peter

CORPORATE SOURCE: Novosibirsk Institute of Bio-organic Chemistry, Siberian Division of Russian Academy of Sciences, Lavrentiev pr. 8, Novosibirsk, 630090, Russia

SOURCE: FEBS Lett. (1996), 392(2), 114-116
CODEN: FEBLAL; ISSN: 0014-5793

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Hybridization of two oligodeoxyribonucleotides (ON1 and ON2), complementary to opposite strands of the apical domain of Escherichia coli 4.5S RNA, was studied. ON1, complementary to bases 58-71, was not able to form a stable RNA-DNA hybrid whereas ON2, complementary to bases 38-53, was. Addn. of both oligonucleotides at the same time resulted in the formation of a ternary complex permitting hybridization of ON1 and increasing hybridization of ON2. Under this condition, binary complexes of ON1 or ON2 with 4.5S RNA were not obsd. The data demonstrate that hybridization of oligonucleotides to both strands of an RNA hairpin structure increases the efficiency of hybridization of either oligonucleotide.

IT 181495-04-5

RL: BPR (Biological process); PRP (Properties); BIOL (Biological study); PROC (Process)

(hybridization of two oligodeoxynucleotides to both strands of RNA hairpin structure increases efficiency of RNA-DNA duplex formation)

E1 THROUGH E16 ASSIGNED

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=> fil reg

FILE 'REGISTRY' ENTERED AT 09:19:57 ON 08 FEB 2000
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STRUCTURE FILE UPDATES: 7 FEB 2000 HIGHEST RN 254995-83-0
DICTIONARY FILE UPDATES: 7 FEB 2000 HIGHEST RN 254995-83-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 13, 1999

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

=> d que

L4 15 SEA FILE=REGISTRY ABB=ON PLU=ON (181495-04-5/BI OR
226713-18-4/BI OR 226713-25-3/BI OR 252941-50-7/BI OR
252941-51-8/BI OR 252941-53-0/BI OR 252941-54-1/BI OR
252941-55-2/BI OR 252941-56-3/BI OR 252941-57-4/BI OR
252941-58-5/BI OR 253134-40-6/BI OR 253134-41-7/BI OR
253134-43-9/BI OR 253134-44-0/BI OR 253148-73-1/BI)

=> s l4 and l1

L5 15 L4 AND L1

=> d 1-15 .bevreg1; fil hom

L5 ANSWER 1 OF 15 REGISTRY COPYRIGHT 2000 ACS
RN 253134-44-0 REGISTRY
CN RNA, (dT-dT-dT-dT-dT-dT-Cm-Gm-Gm-Am-Um-Cm-Um-Gm-Am-Cm-Am-Cm-Gm)
(9CI) (CA INDEX NAME)

OTHER NAMES:

CN 19: PN: WO9966079 SEQID: 19 claimed sequence
CI MAN
SQL 19

SEQ 1 ttttttcgga ucugacacg
==== =====

HITS AT: 7-19

REFERENCE 1: 132:60095

L5 ANSWER 2 OF 15 REGISTRY COPYRIGHT 2000 ACS
RN 253134-43-9 REGISTRY

Searcher : Shears 308-4994

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CN RNA, (dT-dT-dT-dT-dT-dT-Cm-Gm-Gm-Am-Cm-Cm-Um-Gm-Am-Cm-Am-Am-Gm)
(9CI) (CA INDEX NAME)

OTHER NAMES:

CN 18: PN: WO9966079 SEQID: 18 claimed sequence

CI MAN

SQL 19

SEQ 1 ttttttcgga ccugacaag

==== =====

HITS AT: 7-19

REFERENCE 1: 132:60095

L5 ANSWER 3 OF 15 REGISTRY COPYRIGHT 2000 ACS

RN 253134-41-7 REGISTRY

CN RNA, (dT-dT-dT-dT-dT-dT-Cm-Gm-Gm-Am-Cm-Cm-Um-Gm-Am-Cm-Cm-Am-Gm)
(9CI) (CA INDEX NAME)

OTHER NAMES:

CN 17: PN: WO9966079 SEQID: 17 claimed sequence

CI MAN

SQL 19

SEQ 1 ttttttcgga ccugaccag

==== =====

HITS AT: 7-19

REFERENCE 1: 132:60095

L5 ANSWER 4 OF 15 REGISTRY COPYRIGHT 2000 ACS

RN 253134-40-6 REGISTRY

CN RNA, (dT-dT-dT-dT-dT-dT-Am-Gm-Gm-Am-Cm-Cm-Um-Gm-Am-Cm-Am-Um-Gm)
(9CI) (CA INDEX NAME)

OTHER NAMES:

CN 16: PN: WO9966079 SEQID: 16 claimed sequence

CI MAN

SQL 19

SEQ 1 ttttttagga ccugacaug

==== =====

HITS AT: 7-19

REFERENCE 1: 132:60095

L5 ANSWER 5 OF 15 REGISTRY COPYRIGHT 2000 ACS

RN 252941-58-5 REGISTRY

CN DNA, d(G-C-T-G-C-T-T-C-C-T-T-C-C-G-G-A-C-C-T-G-A-C-A-A-A-A-A-C-G-A-T-
A-A-A-C-C-A-A-C-C-A) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 8: PN: WO9966079 SEQID: 8 claimed DNA

Searcher : Shears 308-4994

09/336609

CI MAN
SQL 41

SEQ 1 gctgcttcct tccggacctg acaaaaacga taaaccaacc a
===== ==

HITS AT: 1-12

REFERENCE 1: 132:60095

L5 ANSWER 6 OF 15 REGISTRY COPYRIGHT 2000 ACS
RN 252941-57-4 REGISTRY
CN DNA, d(G-A-C-C-T-G-A-C-C-T-G-G-T-A) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 6: PN: WO9966079 SEQID: 6 claimed DNA
CI MAN
SQL 14

SEQ 1 gacctgacct ggta
===== ==

HITS AT: 1-14

REFERENCE 1: 132:60095

L5 ANSWER 7 OF 15 REGISTRY COPYRIGHT 2000 ACS
RN 252941-56-3 REGISTRY
CN DNA, d(G-C-T-G-C-T-T-C-C-T-T-C-C-G) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 5: PN: WO9966079 SEQID: 5 claimed DNA
CI MAN
SQL 14

SEQ 1 gctgcttcct tccg
===== ==

HITS AT: 1-12

REFERENCE 1: 132:60095

L5 ANSWER 8 OF 15 REGISTRY COPYRIGHT 2000 ACS
RN 252941-55-2 REGISTRY
CN DNA, d(G-C-T-G-C-T-T-C-C-T-T-C) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 4: PN: WO9966079 SEQID: 4 claimed DNA
CI MAN
SQL 12

SEQ 1 gctgcttcct tc
===== ==

HITS AT: 1-12

Searcher : Shears 308-4994

09/336609

REFERENCE 1: 132:60095

L5 ANSWER 9 OF 15 REGISTRY COPYRIGHT 2000 ACS
RN 252941-54-1 REGISTRY
CN DNA, d(G-C-T-G-C-T-T-C-C-T-T-C-C-G-G-A-C-C-T-G-A) (9CI) (CA INDEX
NAME)
OTHER NAMES:
CN 3: PN: WO9966079 SEQID: 3 claimed DNA
CI MAN
SQL 21

SEQ 1 gctgcttcct tccggacctg a
===== ==
HITS AT: 1-12

REFERENCE 1: 132:60095

L5 ANSWER 10 OF 15 REGISTRY COPYRIGHT 2000 ACS
RN 252941-53-0 REGISTRY
CN DNA, d(G-G-C-A-C-A-C-G-C-G-T-C-A-T-C-T-G-C) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 13: PN: WO9966079 SEQID: 13 claimed DNA.
CI MAN
SQL 18

SEQ 1 ggcacacgcg tcattctgc
===== =====
HITS AT: 1-18

REFERENCE 1: 132:60095

L5 ANSWER 11 OF 15 REGISTRY COPYRIGHT 2000 ACS
RN 252941-51-8 REGISTRY
CN DNA, d(G-C-T-G-C-T-T-C-C-T-T-C-C-G-G-A-C-C-T-G-A-C-C-T-G-G-T-A-A-A)
(9CI) (CA INDEX NAME)
OTHER NAMES:
CN 11: PN: WO9966079 SEQID: 11 claimed DNA
CI MAN
SQL 30

SEQ 1 gctgcttcct tccggacctg acctggtaaa
===== ===== =====
HITS AT: 1-28

REFERENCE 1: 132:60095

L5 ANSWER 12 OF 15 REGISTRY COPYRIGHT 2000 ACS
RN 252941-50-7 REGISTRY
CN DNA, d(G-C-T-G-C-T-T-C-C-T-T-C-C-G-G-A-C-C-T-G-A-C) (9CI) (CA INDEX
Searcher : Shears 308-4994

09/336609

NAME)

OTHER NAMES:

CN 2: PN: WO9966079 SEQID: 2 claimed DNA

CI MAN

SQL 22

SEQ 1 gctgcttcct tccggacctg ac

===== ==

HITS AT: 1-12

REFERENCE 1: 132:60095

L5 ANSWER 13 OF 15 REGISTRY COPYRIGHT 2000 ACS

RN 226713-25-3 REGISTRY

CN DNA, d(G-C-T-G-C-T-T-C-C-T-T-C-C-G-G-A-C-C-T-G-A-G-T-G-A-A-T-A-C-G-T-T-C-C-C-G-G-G-C-C-T) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 7: PN: WO9966079 SEQID: 7 claimed DNA

CI MAN

SQL 41

SEQ 1 gctgcttcct tccggacctg agtgaatacg ttcccgggcc t

===== ==

HITS AT: 1-12

REFERENCE 1: 131:29580

L5 ANSWER 14 OF 15 REGISTRY COPYRIGHT 2000 ACS

RN 226713-18-4 REGISTRY

CN DNA, d(G-G-C-A-C-A-C-G-C-G-T-C-A-T-C-T-G-C-C-T-T-C) (9CI) (CA INDEX NAME)

CI MAN

SQL 22

SEQ 1 ggcacacgcg tcattctgcct tc

=====

HITS AT: 1-18

REFERENCE 1: 131:29580

L5 ANSWER 15 OF 15 REGISTRY COPYRIGHT 2000 ACS

RN 181495-04-5 REGISTRY

CN DNA, d(C-G-G-A-C-C-T-G-A-C-C-T-G-G-T-A), 5'-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Deoxyribonucleic acid, d(C-G-G-A-C-C-T-G-A-C-C-T-G-G-T-A), 5'-(dihydrogen phosphate)

CI MAN

SQL 16

Searcher : Shears 308-4994

09/336609

SEQ 1 cggacctgac ctggta

=====

HITS AT: 1-16

has AID 22?

REFERENCE 1: 128:240849

REFERENCE 2: 125:214991

FILE 'HOME' ENTERED AT 09:20:43 ON 08 FEB 2000

Searcher : Shears 308-4994